

The Utilization of Fixed Production Assets in
Ferrous Metallurgy, by N. I. Mityayev, D. I. Popov,
N. F. Sklokin, 13 pp
RUSSIAN, per, Stal', No 2, 1965, pp 163-168.
JPRS 29653

USSR
Econ
Apr 65

279,057

25-Year Achievement of the Rishniy Tagil Metallurgical
Combine, by G. V. Makayev, 5 pp.
RUSSIAN, per, Stal', No 6, Jun 1955, pp. 481-483.
JPRS 31142

USSR
Econ
Jul 65

283,792

Results of All-Union Public Review of
Achievements in Ferrous Metallurgy, by
S. M. Rigmant.
RUSSIAN, per, Stal' No 6, 1965, pp 573-574.
JPRS 31274

Sci-M&M
Apr 66

Stal', No 8, 1965, pp 597-680.

Full Translation by Russian Translation
Institute

Dec 65

Novel, No 9, 1963, pp 67-68.

Feb 66

Stal'in English, Nos 10, 11, 12, 1965

Full tr by The Iron and Steel Institute

Available From Ly Serials

Oct 70

Stal' in English, Nos 1-2, 1966
Full tr by The Iron and Steel Institute
Available From Ivy Serials

Oct 70

A New Stage in Ferrous Metallurgy, by I. P.
Kazanets, 11 pp.
RUSSIAN, per, Stal', No 1, 1966, pp. 1-5.
JPRS 35393

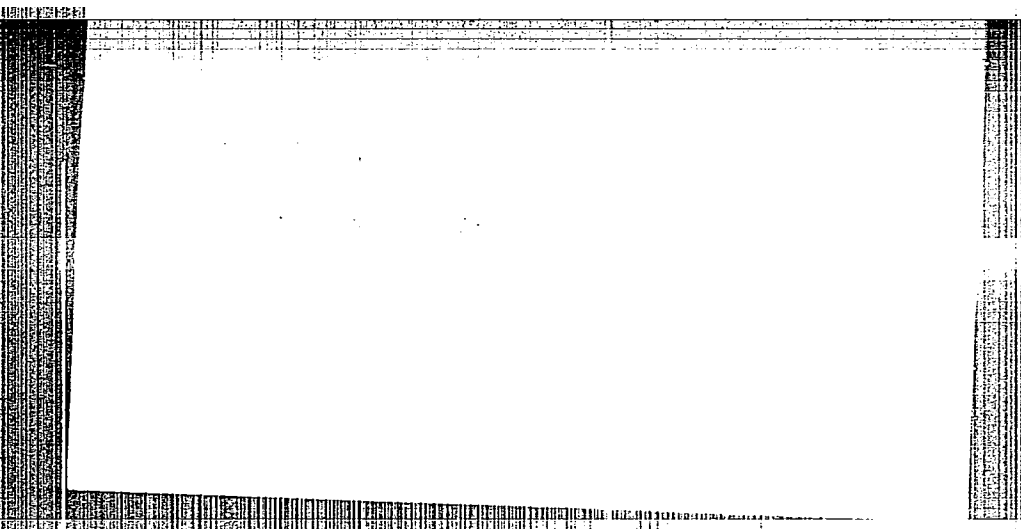
USSR
Sci-M/M
Jun 66

301,814

Tasks of the Scientific and Technical
Society of Ferrous Metallurgy, by M. A.
Pertsev, 10 pp.
RUSSIAN, per, Stal', No 2, 1966, pp. 97-
100.
JPRS 35393

USSR
Sci-M/M
Jun 66

301,845



1966

Stal' in English, Nos 4, 5, 6, 7, 8, 9, 10, 11, 12,
1966,

Full tr by The Iron and Steel Institute

Available from Ly Serials

Oct 70

Plan for the Development of Ferrous Metallurgy
for 1966 and Tasks of the Scientific-Technical
Society of Ferrous Metallurgy, by V. V. Lempit-
skiy, 7 pp:

RUSSIAN, per, Stal', No 4, 1966, pp. 289-
292.

JPRS 36583

USSR

Sci-M/M

Aug 66

308,158

Ultrasonic Treatment of Boron Steels, by L. I.
Teumin, I. S. Lupakov and V. I. Lomakin, 8 pp.
RUSSIAN, per, Stal', No. 9, Sept 1966, pp.
834-836.
JPRS 40288

USSR
Sci-Materials
Apr 67

33,314

Stal' in English, Nos 1-2 1967,
Full tr by The Iron and Steel Institute
Available From Ly Serials

Oct 70

Stal, No 3, Mar 1967.

Full tr by BISI

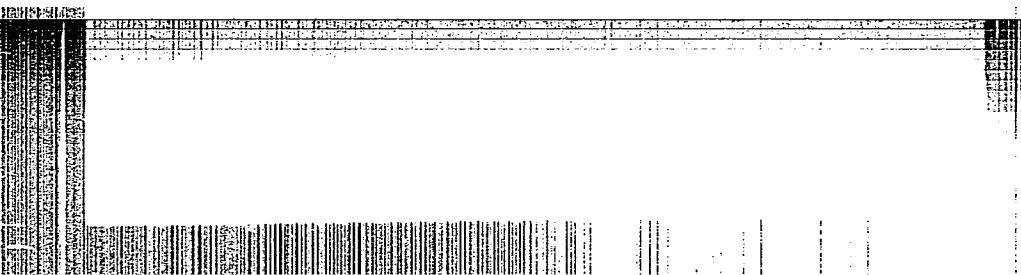
Available at Ly Serials

Jul 67

Dnepropetrovsk Metallurgical Plant imeni
Petrovskiy Hailed on 80th Anniversary, 7 pp.
RUSSIAN, per, Stal', No. 4, 1967, pp. 289-291.
JPRS 41465

USSR
Biog
July 67

329,952



Stal in English, No 7, 1967

Full tr by The Iron and Steel Institute

Available From Ly Serials

Oct 70

Behavior of Some Elements During Electro-
slag Remelting, by M. M. Klyuyev.
RUSSIAN, per, Stal, Vol 28, No 2, 1968,
pp 134-136.
NLL Ref: 9022.4 (68/195)

Sci-Mat
Mar 69

377,014

Economics of Electroslog and Vacuum Re-
melting, by N. F. Sklokin.
RUSSIAN, per, Stal, Vol 28, No 2, 1968,
pp 176-179.
NLL Ref: 9022.4 (68/196)

Sci-Mat
Mar 69

377,029

Behavior of Sulfur in the Blast
Furnaces of Steel Mills in the
Southern Urals, by Yu. M. Borts.
RUSSIAN, per, Stal, Vol 28, No 6,
1968, pp 496-499
NTC 72-11441-11F

June 72

1968 Results of Ferrous Metallurgy, 1969
Tanks, 9 pp.
RUSSIAN, per, Stal', Moscow, Feb 1969,
pp 97-100.
JPRS 48177

Sci-Mat
Jul 69

384,793

Structure and Physical Properties of Sinter
Made for Kursk Magnetic Anomaly (KMA) Ores on
a Sintering Machine of a 252m² Sintering Area
with Two-Layer Charging of the Mix.

by G. V. Korshikov,
RUSSIAN, per. Stal', No 1, 1971, pp 3-8.
BISI 9295

June 71

The Use of Low-Sulphur Pig Iron for Melting
Electrical Steel, by N. A. Voronova,
RUSSIAN, per. Stal', No 1, 1971, pp 23-26.
BISI 9296

June 71

Present Ingot Mould Lives and Prospects for
Lengthening Them, by A. S. Filippov,
RUSSIAN, per. Stal', No 1, 1971, pp 29-31.
BISI 9297

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to Monitor the Deoxidation of Steel, by
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RUSSIAN, per Stal', No 1, 1971, p 32.
BISI 9298

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Properties of Mild-Grade Magnesium Cast Iron
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RUSSIAN, per. Stal', No 1, 1971, pp 49.
BISI 9299

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of the Temperature of the Metal to be Cut,
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BISI 9300

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Installations by Improving the Finishing
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RUSSIAN, per. Stal', No 1, 1971, p 63-66.
BISI 9302

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RUSSIAN, per. Stal', No 1, 1971, pp 66-67.
BISI 9303

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Cold Rolled Textured Transformer Steel,
by N. F. Dubrov,
RUSSIAN, per. STal', No 1, 1971, pp 73-75.
BISI 9304

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Oxidizing Properties of Furnace Atmospheres
Studied by Measuring the Electrical Resistance
of the Metal and Its Oxides, by L. A. Shul'ts,
RUSSIAN, per. Stal', No 1, 1971, pp 76-79.
BISI 9305

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by I. K. Yudin,
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BISI 9306

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on Electric Furnaces, by S. N. Blotskiy,
RUSSIAN, per. STal', No 1, 1971, pp 88-91.
BISI 9307

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Sinter from Kursk-Magnetic-Anomaly (KMA) Ores,
by A.N. Spektor,
RUSSIAN, per. Stal', Vol 2, 1971, pp 102-106.
BISI 9369.

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Basic Oxygen Converters, by V.V. Smoktii,
RUSSIAN, per. Stal', No 2, 1971, pp 118-120.
BISI 9370

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The Mechanism of the Effect of Gas Pressure
on the Process in the Steelmaking Bath,
by V.L. Lokhimovich,
RUSSIAN, per. Stal', No 2, 1971, pp 120-123.
BISI 9371

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Vacuum-Arc Remelting of Constructional Steels
in Large Moulds and the Quality of the Metal',
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BISI 9372

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bing Mill, by M.I. Kapustina,
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100- Tonne Basic Oxygen Converters, by
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BISI 9442

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in Continuous Casting, by V.E. Kozin,
RUSSIAN, per. Stal', No 3, 1971, pp 226-228.
BISI 9441

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of Electroslag Steel, by N.F. Yakovlev,
RUSSIAN, per. Stal', No 3, 1971, p 231-
BISI 9429

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in Passes, by M.L. Zaitsev and G.V. Anufriev,
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BISI 9430

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the Structure of Cast Steel, by
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RUSSIAN, per. Stal', No 3, 1971, pp 262-263.
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Parameters of Slag-Melt Processing,
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BISI 9439

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The Casting of Killed Steel in Big End Down
Ingot Moulds with Lined Upper Portions,
by A.D. Filatov,
RUSSIAN, per. Stal', No 4, 1971, pp 317-320.
BISI 9460

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by V.K. Kobyzev,
RUSSIAN, per. Stal', No 4, 1971, pp 337-340.
BISI 9457

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Increasing the Life of the Monolithic Hearths
of Controlled-Cycle Furnaces of Sheet-Rolling
Mills, by A.G. Marants,
RUSSIAN, per. Stal', No 4, 1971, pp 368-372.
BISI 9463

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of Steel, by F. I. Bashlil, et al.
RUSSIAN, per, Stal', No 5, 1971, pp 411-413.
BISI 9575

Nov 71

The Phase Composition of ANF - 6 Slags and Their
Interaction With Non Metallic Inclusions of
Various Types, by T. F. Raichenko, et al.
RUSSIAN, per, Stal' No 5, 1971, pp 417-419.
BISI 9574

Nov 71

Probability Analysis of Longitudinal Thickness
Variation in Rolled Light Gauge Sheet, by S. L. Kotsar',
et al.
RUSSIAN, per, Stal, No 5, 1971, pp 423-426.
BISI 9573

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Deformation Rate During Two-Dimensional Rolling, by
N. A. Cholyshov, et al.
RUSSIAN, per, Stal', No 5, 1971, pp 427-429.
BISI 9572

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Vanadium Steel Slabs, by V. A. Gamershtein, et al.
RUSSIAN, per, Stal, No 5, 1971, pp 435-6.
BISI 9571

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Phase Transformations in Heat Treated Steel E1961
Under Prolonged Treatment at High Temperature, by
I. S. Kalashnikov, et al.
RUSSIAN, per, Stal, No 5, 1971, pp 453-454.
BISI 9570

Nov 71

Analysis of Service Conditions for Specially Shaped
Steel Ropes on Multi Rope Hoists, by V. G. Molnar.
RUSSIAN, per, Stal, No 5, 1971, pp 473.
BISI 9569

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Plasma Arc Furnaces with Water-Cooled Copper
Moulds, by B.E. Paton,
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BISI 9674

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Jan 72

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Features of the Pass Design of Rolls For
Sections With Periodically Repeating Cor-
rugations.

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NTC 72-60322-13H

sept 72

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on Either Side of Cold Rolled Sheet Steel on
Its Properties, by A. P. Chekmarev,
RUSSIAN, per. Stal', No 6, 1971, pp 530-532.
BISI 9675

June 72

The Part Played by Surface Roughness in Prevent-
ing Welding During Annealing and Contamination
of Cold Rolled Strip, by A. P. Chekmarev,
RUSSIAN, per. Stal', No 6, 1971, pp 532-533.
BISI 9661

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the Turning of Tubes.

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NTC 72-60323-13H

sept 72

Influence of Certain Processing Factors
on the Properties of Cold-Rolled OSYu
Non-Ageing Steel, by V. S. Dyakonova.
RUSSIAN, per, Stal, No 6, 1971,
pp 543-546.
NTC 72-11550-11F

June 72

Structure and Properties of Nickel Base
Alloy EP487 Melted by Different Methods,
by L. M. Zimina.
RUSSIAN, per, Stal, No 6, 1971, pp 547-
549.

NTC 72-60140-11F

BISI 9663

June 72

Metallurgical Science in New Five-Year Plan, by
I. N. Golikov, 9 pp.
RUSSIAN, per, Stal', Moscow, No 7, 1971, pp 577-
581.
JPRS 54099

Sept 71

Modelling the Process by Which Nozzles are
Blocked Up or Frozen During the Continuous
Casting of Steel, by N.M. Lapotyshkin,
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BISI 9745

Feb 72

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Oxide Inclusions in Ferrotitanium and
Ferroniobium,
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NTC 72-60349-11F

sept 72

Economically Suitable Tension Schedule for
Tube Reduction, by M.F. Stoletni,
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PISI 9748

NTC 72-60148-13H

Jan 72

Svekrov, V. M.

Optimum Parameters of Milling Cutters for Dressing
Metal in the Rolling Line.

STAL, No 8, pp 730-733, 1971.

BISI-9789

Feb 73

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Molten High-Chromium Metal Vacuum-Blown With
Argon.
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NTC 72-60340-11F

sept 72

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The Cutting of High-Strength Rolled Stock.
RUSSIAN, per, Stal, No 8, 1971, p 742
NTC 72-60353-13H

sept 72

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Reduction of hydrogen embrittlement in tube steel
during pickling by treatment with direct current.
RUSSIAN, Steel, No 8, 1971, pp. 243-244.
NTIS from 3791

July 72

Study of the Temperature and Gas Regime for
Firing Pellets on the Krivoi-Rog Central
Mining-Benefication Combine (TsGOK) Firing
Machine and Their Properties,
by F.M. Zhuravlev,
RUSSIAN, per. Stal', No 9, 1971, pp 777-780.
BISI 9889

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Apr 72

Production of High Strength Hardened and
Tempered Steel with a Yield Strength of
60kg/mm² for Welded Structures,
by V.N. Nikitin,
RUSSIAN, per. Stal', No 9, 1971, pp 836-838.
BISI 9895

Mar 72

The Drawing of Heat-Resistant Steel Wire in
Roller Draw Plates with the System Round-
Oval-Round, by I.K. Nikolaev,
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BISI 9896

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H. A. Voronova.
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BISI 9991

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During Rolling in Passes.

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hot working, by S. R. Birman, et. al.

Moscow, Stal', No 10, 1972, pp 945-946.

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RUSSIAN, per, Stal', No 11, 1971, pp 977-984
BISI 10019
NTC 72-10780-17

may 72

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Investigation of the contact stresses during the
passage of the weld joint through the deformation
zone by the optical polarised light method.
RUSSIAN, per, Stal', No 11, 1971, pp 1012-1017
BISI 10022

UIC 72-66788-11F

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Calculation of the yield stress, allowing for the law
of development of deformation with time in hot-rolling
RUSSIAN, per, Stal', No 11, 1971, pp 1020-1023
BISI 10023

47C 72 60787-41

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The Production of Tubes From High-Alloy Steels
Using Cast Ingots

STAL, No 11, 1971, pp 1029-1030.

BISI-72-60870-13H

Feb 1973

Investigating the Return-Fines Regime Under
Production Conditions, by A.G. Astakhov and
V.I. Kirillov.
RUSSIAN, per, Stal, 1971, (12), pp. 1065-69.
BISI 10142

July 72

The Use of Alumina Sinter and Iron Ore Pellets
in Open Hearth Melting, by V.N. Letimin,
RUSSIAN, per. Stal', No 12, 1971, pp 1080.
BISI 10143

June 72

The Protection of Slag Pocket Linings from
the Action of Sag, by B.A. Sharov.
RUSSIAN, per, Stal, 1071, (12), p. 1082.
BISI 10144

July 72

Experience in the Production of Cryogenic
Pipe from Refined Nitride Hardened Steel, by
E. S' Kalinnikov.
RUSSIAN, per, Stal, ~~IX~~ 1971, (12), pp. 1115-
1118.
BISI 10146

July 72